

Date: Mon, 15 Nov 93 06:42:13 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #1350
To: Info-Hams

Info-Hams Digest Mon, 15 Nov 93 Volume 93 : Issue 1350

Today's Topics:

 Advice needed on best band to use for across country chatting
 Amateur Class -Local)

 Elmers are dead, god help us HAMS!

 Exam Generator

 Index to the rec.radio.amateur.* Supplemental Archives
 SAREX Keps & Update 10/28

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 14 Nov 93 20:47:33 GMT
From: dziuxsolim.rutgers.edu!gandalf.rutgers.edu!troch@uunet.uu.net
Subject: Advice needed on best band to use for across country chatting
To: info-hams@ucsd.edu

Howdy,

I am in the process of studying for a Tech-No code ham license (Hope
this doesn't turn some of you off from reading the rest of this
message. :-))

I will be driving to Texas in a few months and would like very much to
take a HT with me (actually that is irrelevant as I might purchase a
mobile unit). I would really like to be able to stay in touch
with folks back here in NJ. What band would you recommend to accomplish
this, and is it possible on the freqs allowed with a tech-no code
license?

Thanks,
Rod

--

--PGP 2.3 Public Key Available (finger me or ask for it)
If you yell try : Rod Troch | Zeta Beta Tau
internet : troch@gandalf.rutgers.edu |
bitnet : troch@zodiac | happyHappy joyJoy
Rutgers University - Faculty of Arts and Sciences / History Dept.
- Microcomputer Analyst (Network Admin)

Date: 14 Nov 93 15:01:00 GMT
From: nntp.crl.com!boo!eabbs!sheri.ritchie@decwrl.dec.com
Subject: Amateur Class -Local)
To: info-hams@ucsd.edu

If anyone out there knows where an amateur radio class close to Hayward, CA is, let me know. I'd like to get in on the beginning of a class which is local, if possible.

Thanks, Sheri Ritchie @ Easy Access

Date: 15 Nov 93 14:05:08 GMT
From: news.crd.ge.com!crd.ge.com!mallick@uunet.uu.net
Subject: Elmers are dead, god help us HAMS!
To: info-hams@ucsd.edu

Unfortunately, a lot of the information new hams need to understand just what all those knobs are doing on the front of those old transceivers is just not around any more in any of the handbooks or introductory literature. When I was "tooling up" for my general class license, I remember studying "Understanding Amateur Radio" from the ARRL. A real fine text that helped me understand just what what going on inside the box. I'm not sure anything like that is available any more. All the new entrants can do is rely on the Elmers to help 'em out.

I wonder what ever happened to my copy of that book?

--

John A. Mallick WA1HNL	E-mail: mallick@crd.ge.com
GE Corporate Research and Development	Phone: (518)-387-7667 (W)
Schenectady, NY 12301	FAX: (518)-387-6560 (W)

Date: Mon, 15 Nov 1993 02:04:58 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!howland.reston.ans.net!agate!
library.ucla.edu!csulb.edu!csus.edu!netcom.com!msattler@network.ucsd.edu
Subject: Exam Generator
To: info-hams@ucsd.edu

Stephen Mosier (mosier@fagan.uncg.edu) wrote:

: I've lost my copy of an exam generator. Right now I'm in need of a General
: Class exam generator to help someone study. Does anyone know where there is
: an FTPable copy of the software?

world.std.com:/pub/hamradio/arrl/Server-files/pool-general-1.Z and
pool-general-2.Z contain the questions. There is also (for Macs)
a HyperCard stack in /pub/hamradio/mac/theory-and-morse as
General_Ham_Test_.hqx. Anyone got any pointers for DOS/Windows?
--

Michael S. Sattler msattler@netcom.com +1 (415) 621-2903
Digital Jungle Software Encrypt now; ask me how. (finger for PGP key)

 All that is required for evil to triumph is
 for {wo}men of good will to do nothing.

Date: 15 Nov 93 12:00:13 GMT
From: nevada.edu!news.unomaha.edu!news@uunet.uu.net
Subject: Index to the rec.radio.amateur.* Supplemental Archives
To: info-hams@ucsd.edu

Posted-By: auto-faq 2.4
Archive-name: radio/ham-radio/archives

The following is a list of informational files for this newsgroup
available via anonymous FTP from ftp.cs.buffalo.edu (currently at IP
number 128.205.32.9) or the Australian mirror at grivel.une.edu.au
(currently at IP number 129.180.4.7).

Questions to bowen@cs.buffalo.edu

1750m.band - misc info on the 1750m band
222xvtr.zip - PostScript code for KH6CP no-tune 222-MHz transverter
8085sys.zip - 8085 system software, from QEX 11/93 and 12/93
alinco_180t_mod - Alinco 180T modification for a TNC connection
ampr_coordinators - coordinators for packet IP addresses

antenna_refs - references for articles about antenna designs
arrl-logo.ps - ARRL logo in PostScript format
arrl_bib - bibliographies from ARRL literature (ASCII format)
arrl_digital_minutes - Minutes of the ARRL committee on digital comm.
arrl_fo_jobs - descriptions of some ARRL Field Organization jobs
arrl_info_service - announcement of the ARRLs trial information service
bbs_interface_specs - specifications for message passing protocol
cal_pd_freq - California police frequencies
callbook.tar.Z - sources for the marvin callsign server v1.3
canadian.Z - Canadian ham database in FCC format
carpet.loop.2 - Antenna for apartments and small spaces
clubcalls.Z - database of US ham clubs
comb6.zip - HF Propagation Predication program
docket_91-36 - information regarding the proposed scanner regs
dxcc-k2di - ARRL DXCC country list
dx_w2iol.dat - data for all country prefix, position, etc
dx_w2iol.doc - documentation for the above database
element_credit - rules about VE credit for earliers exams
elmers_admin - information about the elmers list (see below)
elmers_list - list of elmers on the network
exam_ops - info on exams and exam opportunities
faq_callsign - frequently asked questions about the callsign server
faq_ham_1 - frequently asked questions about ham radio (pts 1)
faq_ham_2 - frequently asked questions about ham radio (pts 2)
faq_ham_3 - frequently asked questions about ham radio (pts 3)
faq_packet - frequently asked questions about packet radio
faq_shortwave - frequently asked questions about shortwave
fft.com - EGA/VGA DOS command for spectral display (QST 1/92)
ffth.com - Hercules DOS command for spectral display (QST 1/92)
field_day_92 - field day rules for 1992
florida_antenna - Florida State antenna law info
guide2newsgroups - description of USENET newsgroups dedicated to radio
ham_sat_sum - summary of information needed to get on satellite
hams_on_usenet - list of ham operators and e-mail addresses on the net
hamstacks - information about the question pool stacks
handicap_waiver - info on obtaining a handicapped test waiver
hf_rigs - QST reviews of available HF rigs
ht_info - general information about commercial hand helds
icom_ic_w21at_mods - increases the number of bands on an Icom IC W21AT
intro_to_sw1 - info for aspiring short wave listeners
intro_to_scanners - info for aspiring scanner listeners
jlem.zip - Program, w/source, for 2kx8 ROM emulator (QEX 1/93)
j-poles - description of j-pole antenna made from twin-lead
lead_acid_batteries - essay on lead-acid batteries
license_plates - guide to ham calls on license plates
logos - PostScript logos for various ham organizations
mail_order - a database of electronic mail order shops
manufacturers - names and addresses of ham gear manufacturers

mav11.ps - postscript image of MAV-11 amplifier PCB (QEX 9/93)
mods - directory containing radio modifications
motorola_ge_service_man - how to get service manuals for Motorola and GE rigs
nasa_select - places where you can hear NASA SELECT broadcasts
new_packeteers - helpful essays for new packeteers
newcomers - tips and hints for those new to amateur radio
nprm_93_85_text - text of docket 93-85 (message forwarding systems)
packet_clubs - organizations you can get more packet info from
packet_gateways - list of gateways from packet to Internet
packet_header_standard - description of BBS message header standards
packet_misc - miscellaneous packet info
packet_software - list of packet software versions
phone_bbs_list - phone BBSs for ham related issues/software
pio_handbook - ARRL Public Information Officer's Handbook
pr_docket_92-136 - text of FCC PR Docket 92-136
qex1193.ps - Postscript image of 13cm preamp board, 11/93 QEX "RF"
qsl_bureau1 - information about the ARRL QSL bureau
qsl_bureau2 - "what should I do if" list for the QSL bureau
qst_prodev - index of ARRL product reviews in QST
quest_pool_novice - novice question pool - good after 7/1/93
quest_pool_technician - technician question pool - good after 7/1/93
quest_pool_general - general question pool - good before 6/30/94
quest_pool_advanced - advanced question pool - good before 6/30/95
quest_pool_extra - extra question pool - good before 6/30/96
repeater_map_proj - description of Electronic Repeater Mapping Project
rfi_tips - good posting about RFI
sol_geo_data - description of daily solar geophysical broadcasts
sol_terra_terms - glossary of solar-terrestrial terms
sstv_wefax_info - general help for SSTV and WEFAX users
tasm.zip - table-driven assembler for weavrdsp.zip file
usenet_purchases - tips on buying and selling via USENET
weavrdsp.zip - src to "Weaver Method Modulator Using DSP" (QEX 9/93)

For readers of this newsgroup both new and experienced, these files are a de-facto "Required Reading List" to provide definitive answers and pointers to other sources for questions that come up in this forum.

This is also your archive, so any additional articles, guides, or small PostScript graphics that you feel would enhance this collection are most welcome. Submit to Devon via his E-mail address above.

Thanks go to Devon Bowen, KA2NRC, for providing diskspace and maintaining these valuable archives, as well as all the authors who wrote and submitted the information contained in them.

Additional archives out there that have /pub/ham-radio directories are encouraged to "mirror" these files to provide redundant storage for these documents. Some of these sites (which may or may not mirror

ftp.cs.buffalo.edu) include:

ucsd.edu	128.54.16.1	/hamradio
nic.funet.fi	128.214.6.100	/pub/ham
		/pub/dx
csseq.cs.tamu.edu	128.194.2.20	/ham-radio
suntan.tandem.com	130.252.10.8	/hamradio
col.hp.com	15.255.240.16	/packet
talos.cs.buffalo.edu	128.205.32.9	/pub/ham-radio
bubba.business.uwo.ca	129.100.22.42	/hamster/ham
		/hamster/tcpip
		/hamster/mods
		/hamster/view
vax.cs.pitt.edu	130.49.2.1	/pub/arrl8
		/pub/ka9q
		/pub/ncpa
		/pub/tnc2
broлга.cc.uq.oz.au	130.102.128.5	/pub/ka9q
tomcat.gsfc.nasa.gov	128.183.10.100	/public
helios.tn.cornell.edu	128.84.241.2	/pub
wuarchive.wustl.edu	128.252.135.4	/mirrors/msdos/hamradio
		/mirrors/msdos/packet
		/mirrors/msdos/ka9q-tcpip
		/mirrors/cpm/hamradio
		/mirrors/cpm/packet
		/mirrors/misc/hamradio
		/mirrors/misc/packet
		/mirrors/misc/ka9q-tcpip
gatekeeper.dec.com	16.1.0.2	/pub/net/ka9q
sun.soe.clarkson.edu	128.153.12.3	/pub/ka9q
sics.se	192.16.123.90	/archive/packet
		/pub/packet-incoming
sabrina.dei.unipd.it	147.162.2.106	/pub/hamradio
uhunix2.uhcc.Hawaii.Edu	128.171.44.7	/incoming/ham-radio
caticsuf.cati.csufresno.edu	129.8.100.15	/pub/ham-radio
ftp.waseda.ac.jp	133.9.1.32	/pub/toumon/ham-radio
garfield.catt.ncsu.edu	152.1.43.23	/pub/hamradio
plan9.njit.edu	128.235.1.10	/pub/hamradio
sunee.uwaterloo.ca	129.97.128.196	/pub/radio
grivel.une.edu.au	129.180.4.7	/pub/ham-radio
uxc.cso.uiuc.edu	128.174.5.50	/pub/ham-radio
iraun1.ira.uka.de	129.13.10.90	/pub/ham-radio
nic.switch.ch	130.59.1.40	/software/hamradio
		/software/mac/ham-radio
iesd.auc.dk	130.225.48.4	/ham-radio
akutaktak.andrew.cmu.edu	128.2.35.1	/aw0g (softkiss-mac)
??????????	129.69.162.1	/pub (login as ftp
		pkt cluster,usa callbook)

gandalf.umcs.maine.edu	130.111.112.21	/pub/ham-radio # ls -l NO !)
rtfm.mit.edu	18.70.0.209	/pub/usenet/news.answers/radio
tamu.edu	128.194.15.32	/pc-sig
ftp.geo.brown.edu	128.148.116.19	/pub/hamradio
ns.risc.net	155.212.2.2	/ham-radio
world.std.com	192.74.137.5	/pub/hamradio

Questions about FTP mirroring and access to appropriate software should be directed to me, or do an Archie search on the keyword "mirror."

For those without FTP access (and only those without FTP access, please), there is an FTP mail server at ftpmail@decwrl.dec.com (IP 16.1.0.1). Send the word "HELP" to this address for more information.

Additional documents on Usenet and other newsgroups may be obtained from rtfm.mit.edu (IP 18.70.0.209) via anonymous FTP or via mail server (send the word "HELP" to mail-server@rtfm.mit.edu).

The American Radio Relay League has recently made available a mail-server to distribute many of their informational documents in electronic form. Send E-mail to info@arrl.org with "HELP" in the message body for more information.

Yet another mail-server has been made available by Steve Harding, KA6ETB. Send E-mail to ham-server@grafex.Cupertino.CA.US with "HELP" in the message body for more information.

73, Paul W. Schleck, KD3FU

pschleck@unomaha.edu

Celebrating 60 years of the Univ. of Maryland ARA - W3EAX (1933-1993)

 Date: 15 Nov 93 09:32:15 GMT
 From: news-mail-gateway@ucsd.edu
 Subject: SAREX Keps & Update 10/28
 To: info-hams@ucsd.edu

R:931115/0819Z @:F6CNB.#SETX.TX.USA.NA [SugarLand] #:65142 Z:77478
 R:931114/0624Z @:K5DI.NM.USA.NA [Las Cruces] #:7500 318mn 43s29256_W70EK
 R:931114/0635Z @:KC7CG.AZ.USA.NA #:23309
 R:931113/1948Z @:W7JHX.AZ.USA.NA [Tucson] #:667 Z:85710 FBB5.15
 R:931111/0639Z @:N0IFE.#NCMO.MO.USA.NA [Moberly, Mo] #:54193 Z:65270 FBB5.15
 R:931107/2151Z @:KJ4LQ.#TIDE.VA.USA Chesapeake #:51383 Z:23320
 R:931107/0732Z @:N7IJI.#CLT1.NC.USA.NA Z:28209 #:76154 \$:29256_W70EK
 R:931105/1624z 60177@KT0H.#NECO.CO.USA [DATA HUB CO]

R931105/1608Z @:W0RA.#SECO.CO.USA.NA [YODER] FBB5.14d #:83466

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>
id 29256 ; Thu, 04 Nov 93 03:46:32 GMT
Date: Thu, 04 Nov 93 03:44:57 UTC
Message-Id: <29255_w7oek@w7oek.bbs>
From: abfhb%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>
id 29255 ; Thu, 04 Nov 93 02:45:47 GMT
Date: Thu, 04 Nov 93 02:44:45 UTC
Message-Id: <29254_w7oek@w7oek.bbs>
From: abfhb%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>
id 29254 ; Thu, 04 Nov 93 01:45:29 GMT
Date: Thu, 04 Nov 93 01:44:47 UTC
Message-Id: <29253_w7oek@w7oek.bbs>
From: abfhb%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>
id 29253 ; Thu, 04 Nov 93 00:46:29 GMT
Date: Thu, 04 Nov 93 00:45:06 UTC
Message-Id: <2949_w7oek@w7oek.bbs>
From: abfhb%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>
id 29249 ; Thu, 04 Nov 93 00:15:42 GMT
Date: Thu, 04 Nov 93 00:15:11 UTC
Message-Id: <29228_w7oek@w7oek.bbs>
From: abfhb%w7oek@wd4eck.ampr.org

To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>
id 29228 ; Wed, 03 Nov 93 22:47:23 GMT
Date: Wed, 03 Nov 93 22:46:25 UTC
Message-Id: <29207_w7oek@w7oek.bbs>
From: abfhb%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>
id 29207 ; Wed, 03 Nov 93 21:45:05 GMT
Date: Wed, 03 Nov 93 21:44:35 UTC
Message-Id: <29164_w7oek@w7oek.bbs>
From: abfhb%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>
id 29164 ; Wed, 03 Nov 93 20:56:01 GMT
Date: Wed, 03 Nov 93 20:55:40 UTC
Message-Id: <29150_w7oek@w7oek.bbs>
From: abfhb%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>
id 29150 ; Wed, 03 Nov 93 18:45:47 GMT
Date: Wed, 03 Nov 93 18:45:40 UTC
Message-Id: <29148_w7oek@w7oek.bbs>
From: abfhb%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>
id 29148 ; Wed, 03 Nov 93 18:03:46 GMT
Date: Wed, 03 Nov 93 18:03:22 UT

Message-Id: <29147_w7oek@w7oek.bbs>
From: abfhib%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>
id 29147 ; Wed, 03 Nov 93 17:12:03 GMT
Date: Wed, 03 Nov 93 17:11:44 UTC
Message-Id: <29136_w7oek@w7oek.bbs>
From: abfhib%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>
id 29136 ; Wed, 03 Nov 93 15:44:49 GMT
Date: Wed, 03 Nov 93 15:44:44 UTC
Message-Id: <29134_w7oek@w7oek.bbs>
From: abfhib%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>
id 29134 ; Wed, 03 Nov 93 14:45:08 GMT
Date: Wed, 03 Nov 93 14:44:47 UTC
Message-Id: <29132_w7oek@w7oek.bbs>
From: abfhib%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>
id 29132 ; Wed, 03 Nov 93 13:44:32 GMT
Date: Wed, 03 Nov 93 13:44:45 UTC
Message-Id: <29131_w7oek@w7oek.bbs>
From: abfhib%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>

id 29131 ; Wed, 03 Nov 93 12:44:39 GMT
Date: Wed, 03 Nov 93 12:44:44 UTC
Message-Id: <29126_w7oek@w7oek.bbs>
From: abfhhb%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHHB%W70EK@WD4ECK.AMPR.ORG>

id 29126 ; Wed, 03 Nov 93 11:44:24 GMT
Date: Wed, 03 Nov 93 11:44:43 UTC
Message-Id: <29125_w7oek@w7oek.bbs>
From: abfhhb%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHHB%W70EK@WD4ECK.AMPR.ORG>

id 29125 ; Wed, 03 Nov 93 10:44:31 GMT
Date: Wed, 03 Nov 93 10:44:47 UTC
Message-Id: <2917_w7oek@w7oek.bbs>
From: abfhhb%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHHB%W70EK@WD4ECK.AMPR.ORG>

id 29117 ; Wed, 03 Nov 93 09:43:27 GMT
Date: Wed, 03 Nov 93 09:43:46 UTC
Message-Id: <29091_w7oek@w7oek.bbs>
From: abfhhb%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHHB%W70EK@WD4ECK.AMPR.ORG>

id 29091 ; Wed, 03 Nov 93 08:56:04 GMT
Date: Wed, 03 Nov 93 08:55:59 UTC
Message-Id: <29080_w7oek@w7oek.bbs>

From: abfhhbw7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHHBW70EK@WD4ECK.AMPR.ORG>

id 29080 ; Wed, 03 Nov 93 07:45:09 GMT
Date: Wed, 03 Nov 93 07:45:11 UTC
Message-Id: <29079_w7oek@w7oek.bbs>
From: abfhhbw7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHHBW70EK@WD4ECK.AMPR.ORG>

id 29079 ; Wed, 03 Nov 93 07:03:53 GMT
Date: Wed, 03 Nov 93 07:03:31 UTC
Message-Id: <29066_w7oek@w7oek.bbs>
From: abfhhbw7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHHBW70EK@WD4ECK.AMPR.ORG>

id 29066 ; Wed, 03 Nov 93 05:43:31 GMT
Date: Wed, 03 Nov 93 05:44:04 UTC
Message-Id: <29062_w7oek@w7oek.bbs>
From: abfhhbw7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHHBW70EK@WD4ECK.AMPR.ORG>

id 29062 ; Wed, 03 Nov 93 02:45:25 GMT
Date: Wed, 03 Nov 93 02:46:01 UTC
Message-Id: <29050_w7oek@w7oek.bbs>
From: abfhhbw7oek@wd4eck.ampr.org

To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>

id 29050 ; Wed, 03 Nov 93 02:01:26 GMT
Date: Wed, 03 Nov 93 02:01:50 UTC
Message-Id: <29047_w7oek@w7oek.bbs>
From: abfhb%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>

id 29047 ; Wed, 03 Nov 93 01:09:32 GMT
Date: Wed, 03 Nov 93 01:09:40 UTC
Message-Id: <29041_w7oek@w7oek.bbs>
From: abfhb%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>

id 29041 ; Tue, 02 Nov 93 21:42:27 GMT
Date: Tue, 02 Nov 93 21:42:59 UTC
Message-Id: <28985_w7oek@w7oek.bbs>
From: abfhb%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>

id 28985 ; Tue, 02 Nov 93 20:47:06 GMT
Date: Tue, 02 Nov 93 20:47:48 UTC
Message-Id: <28973_w7oek@w7oek.bbs>
From: abfhb%w7oek@wd4eck.ampr.org

To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>

id 28973 ; Tue, 02 Nov 93 19:58:01 GMT
Date: Tue, 02 Nov 93 19:58:49 UTC
Message-Id: <28968_w7oek@w7oek.bbs>
From: abfhb%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>

id 28968 ; Tue, 02 Nov 93 18:43:20 GMT
Date: Tue, 02 Nov 93 18:44:09 UTC
Message-Id: <28942_w7oek@w7oek.bbs>
From: abfhb%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>

id 28942 ; Tue, 02 Nov 93 17:43:53 GMT
Date: Tue, 02 Nov 93 17:44:47 UTC
Message-Id: <28937_w7oek@w7oek.bbs>
From: abfhb%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>

id 28937 ; Tue, 02 Nov 93 15:43:49 GMT
Date: Tue, 02 Nov 93 15:44:50 UTC
Message-Id: <28936_w7oek@w7oek.bbs>
From: abfhb%w7oek@wd4eck.ampr.org

To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>

id 28936 ; Tue, 02 Nov 93 14:43:54 GMT
Date: Tue, 02 Nov 93 14:44:51 UTC
Message-Id: <28935_w7oek@w7oek.bbs>
From: abfhb%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>

id 28935 ; Tue, 02 Nov 93 13:43:53 GMT
Date: Tue, 02 Nov 93 13:44:50 UTC
Message-Id: <28933_w7oek@w7oek.bbs>
From: abfhb%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>

id 28933 ; Tue, 02 Nov 93 12:42:37 GMT
Date: Tue, 02 Nov 93 12:43:53 UTC
Message-Id: <28932_w7oek@w7oek.bbs>
From: abfhb%w7oek@wd4eck.ampr.org
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

Received: from WD4ECK.AMPR.ORG by W70EK.AMPR.ORG with SMTP originator
<ABFHB%W70EK@WD4ECK.AMPR.ORG>

id 28932 ; Tue, 02 Nov 93 12:09:45 GMT
X-Forwarded-To: W70EK

Date: 28 Oct 93 19:00:00 UTC

Message-Id: <931028050312@w7oek.bbs>
From: abfhhb@wa8ure.#swmi.mi.usa.na
To: ans@amsat.org
Subject: SAREX Keps & Update 10/28
X-BBS-Msg-Type: B

SB SAREX @ AMSAT \$STS-58.025
SAREX Keps & Update: 10/28

Thursday 10/28/93 @ 08:00 UTC

The last school group contact was completed yesterday. The Portsmouth HS in Portsmouth, New Hampshire had a telebridge contact using stations in California (Ralph Warner, N6MNN) and Texas (Bob Douglas, W5GEL). The students asked 5 questions during this bridge contact.

Hams across the U.S. and around the world continue to work the Shuttle Columbia on both voice and packet. Moreover, the completion of school group contacts has cleared several school backup passes for possible general QSO opportunities. While the SAREX Working Group cannot fully guarantee availability, there is a high probability that the STS-58 crew will be ready to take general calls over the continental U.S. on these passes. Two of these "scheduled" passes remain. These include orbit 178 at MET 11 days 1 hour 42 minutes (10/29 at 16:35 UTC) and orbit 192 at MET 11 days 22 hours and 29 minutes (10/30 at 13:22 UTC). Please note that the astronauts operated voice during yesterday's "scheduled" pass which occurred on 10/27 at 14:59 UTC (Orbit 145). Also note that hams on

the ground heard or worked the Shuttle Columbia crew on several other orbits yesterday.

Element set GSFC-031, generated by Ron Parise, WA4SIR, is the official SAREX set for today. Please note that there is only a six second difference between element set GSFC-025 (released two days ago) and element set GSFC-031.

STS-58

1	22869U	93065A	93300.17699070	0.00133671	99048-5	24183-3	0	318
2	22869	39.0252	71.9896	0012817	34.2105	325.9529	16.00500857	1383

Satellite: STS-58

Catalog number: 22869

Epoch time:	93300.17699070	(27 OCT 93 04:14:51.** UTC)
Element set:	GSFC-031	
Inclination:	39.0252 deg	
RA of node:	71.9896 deg	Space Shuttle Flight STS-58
Eccentricity:	0.0012817	Keplerian Elements
Arg of perigee:	34.2105 deg	
Mean anomaly:	325.9529 deg	
Mean motion:	16.00500857 rev/day	Semi-major Axis: 6651.1630 Km
Decay rate:	0.13E-02 rev/day*2	Apogee Alt: 281.30 Km
Epoch rev:	138	Perigee Alt: 264.25 Km

NOTE - This element set is based on NORAD element set # 031.
The spacecraft has been propagated to the next ascending
node, and the orbit number has been adjusted to bring it
into agreement with the NASA numbering convention.

Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group

End of Info-Hams Digest V93 #1350

